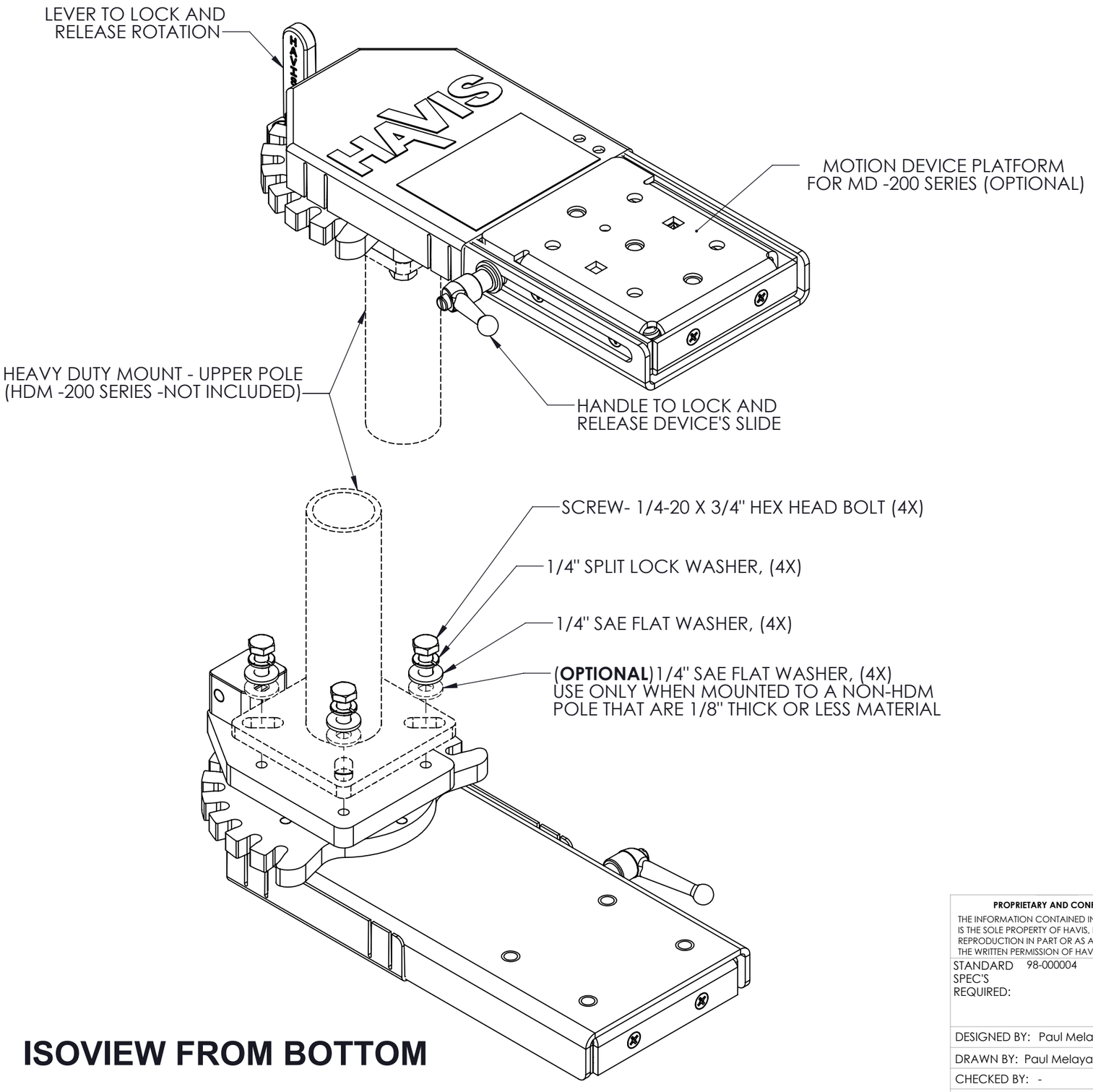
LEVER TO LOCK AND RELEASE ROTATION
MOTION DEVICE PLATFORM FOR MD -200 SERIES (OPTIONAL)
HEAVY DUTY MOUNT - UPPER POLE (HDM -200 SERIES -NOT INCLUDED)
HANDLE TO LOCK AND RELEASE DEVICE'S SLIDE
SCREW- 1/4-20 X 3/4" HEX HEAD BOLT (4X)
1/4" SPLIT LOCK WASHER, (4X)
1/4" SAE FLAT WASHER, (4X)
(OPTIONAL)1/4" SAE FLAT WASHER, (4X) USE ONLY WHEN MOUNTED TO A NON-HDM POLE THAT ARE 1/8" THICK OR LESS MATERIAL

ISOVIEW FROM BOTTOM

INSTALLATION INSTRUCTIONS:

1. **PLACE MD-100 SERIES MOTION DEVICE ON TOP OF POLE MOUNTING SURFACE.**
2. **LINE UP THE 4 TAPPED HOLES IN THE UPPER POLE MOUNTING SLOTS.**
3. **ATTACHED THE 4 HEX BOLTS & LOCK WASHERS AND FLAT WASHER AS SHOWN THROUGH THE THREADED HOLES OF THE MOTION DEVICE.**
4. **TIGHTEN THE SCREWS TO 90 ±10% INCH-POUND TORQUE .**

NOTES:

1. **IF MD-200 MOTION DEVICE SERIES IS NOT INSTALLED, REFER TO MD-200 SERIES INSTALL INSTRUCTIONS.**
2. **IF THE UNIT IS NOT USED WITH HDM-200 POLE SERIES AND ATTACHED TO A SURFACE LESS THAN 1/8" THICK, ADD THE OPTIONAL STEEL FLAT WASHER INCLUDED TO A HARDWARE KIT (SEE VISUAL AID INSTALLATION GUIDE).**

HARDWARE KIT CONTENTS:

DESCRIPTION	QTY.
1/4-20 X 3/4" HEX BOLT	4
WASHER, 1/4" SAE FLAT, 9/32"ID, 5/8"OD, .051-.080"THK	8
1/4" SPLIT LOCK WASHER	4

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STANDARD SPEC'S REQUIRED: 98-000004

DESIGNED BY: Paul Melaya

DRAWN BY: Paul Melaya

CHECKED BY: -

REF # N/A

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
ALL THREADS ARE IN UNC-2A/2B OR UNF-2A/2B AFTER COATING AND TOLERANCES ARE:
.XX ±.02 .XXX ±.010 ANGLES ±.5 DEG

DO NOT SCALE DRAWING

MATERIAL: SEE BOM

FINISH: N/A

AREA(SQ. IN.): 600.56

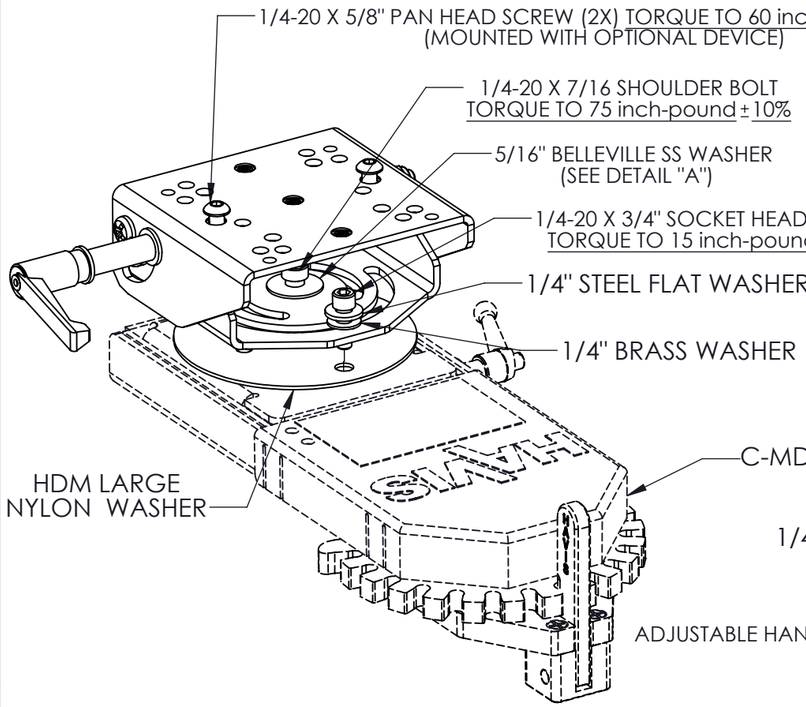
HAVIS, INC.
75 JACKSONVILLE RD, WARMINSTER, PA. 18974
1-800-524-9900

TITLE:
MD-100 SERIES MOTION DEVICE

SIZE B | DWG. NO. C-MD-104-INST | REV 3/23/10

WEIGHT (LB): 7.27 | SCALE: 1:4 | SHEET 1 OF 2

INSTALLATION -OPTION 1 (180 DEG. ROTATION) STANDARD ASSEMBLY


1/4-20 X 5/8" PAN HEAD SCREW (2X) TORQUE TO 60 inch-pound ±10%
(MOUNTED WITH OPTIONAL DEVICE)
1/4-20 X 7/16 SHOULDER BOLT
TORQUE TO 75 inch-pound ±10%
5/16" BELLEVILLE SS WASHER
(SEE DETAIL "A")
1/4-20 X 3/4" SOCKET HEAD SCREW
TORQUE TO 15 inch-pound ±10%
1/4" STEEL FLAT WASHER
1/4" BRASS WASHER
C-MD-100
HDM LARGE
NYLON WASHER

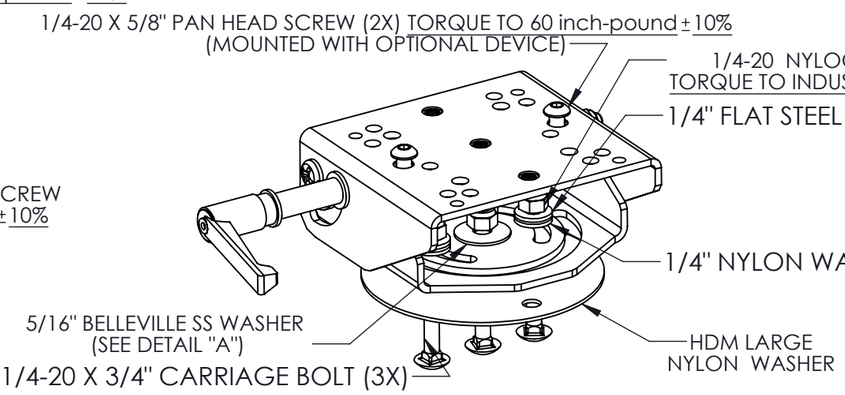
Note: (If C-MD-200 is already pre-mounted on a motion device (C-MD-100 series), skip to step 4.)

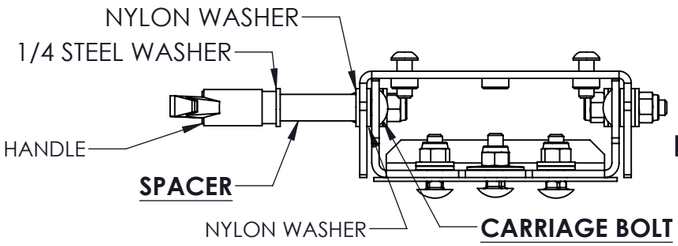
General installation Guide:

1. Place HDM Large Nylon Washer on top of motion device or pole assembly or any desired mounting module . Align mounting holes as shown.
2. Place any MD-200 series on top of large HDM Large Nylon Washer making sure to align holes in MD-200 with holes in HDM large Nylon Washer.
3. Arrange supplied hardware specified dictated by desired mounting application with recommended Torque guide.
4. Mount Docking Station on top of Upper Bracket of C-MD-200 series and secure using (2) 1/4-20 Pan Head Screws. Torque as shown.

WARNING: ALL HAVIS INC. PRODUCTS ARE DESIGNED WITH SAFETY OF USE AND INSTALLATION IN MIND. HOWEVER, IT IS THE SOLE RESPONSIBILITY OF THE OWNER/OPERATOR OF A VEHICLE USING HAVIS INC. MOUNTING AND DOCKING EQUIPMENT, TO INSURE THAT THE EQUIPMENT IS INSTALLED SO THAT IT WILL NOT INTERFERE WITH VEHICLE OPERATION, INTERFERE WITH SAFETY DEVICES, OBSTRUCT VIEW OF DRIVING CONDITIONS, OR IN ANY WAY DEGRADE OCCUPANT SAFETY. IMPROPER INSTALLATION CAN CAUSE SERIOUS INJURY IN THE EVENT OF AN ACCIDENT. INSTALLATION SHOULD ONLY BE PERFORMED BY QUALIFIED PROFESSIONALS. COMPUTERS AND MOTION DEVICES MUST BE MOVED TO AND STOWED/SECURED IN THEIR SAFE DRIVING POSITIONS BEFORE OPERATING VEHICLE.

INSTALLATION - OPTION 2 (90 DEG. ROTATION)


1/4-20 X 5/8" PAN HEAD SCREW (2X) TORQUE TO 60 inch-pound ±10%
(MOUNTED WITH OPTIONAL DEVICE)
1/4-20 NYLOCK NUT(3X)
TORQUE TO INDUSTRY STANDARD
1/4" FLAT STEEL WASHER (2X)
1/4" NYLON WASHER (2X)
5/16" BELLEVILLE SS WASHER
(SEE DETAIL "A")
HDM LARGE
NYLON WASHER
1/4-20 X 3/4" CARRIAGE BOLT (3X)



Note: (If Adjustable handle is not needed, skip to step 4.)

Replacing Handle installation Guide:

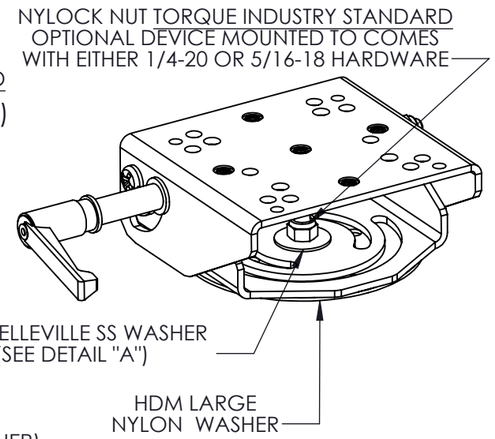
1. Remove adjustable handle and carriage bolt, but keep steel washer, nylon washer and adjustable handle for re-use.
2. Replace spacer and carriage bolt with appropriate length or desired usage.
3. Re-arrange hardwares and assemble adjustable locking mechanism as shown.
4. If no handle is required, removed adjustable handle, carriage bolt and spacer. Replace carriage bolt with 3/4" length. In lieu of adjustable handle change with supplied 1/4-20 nylock nut. Keep nylon washer and steel washer assembled as it shown.

HARDWARE KIT CONTENTS:

DESCRIPTION	QTY.
BOLT, 1/4-20 x 3/4 CARRIAGE ZP	3
NUT 1/4-20 NYLOCK, BLK, ZP, GRD 5	5
WASHER, 1/4 FLAT ZP	3
SPACER 1/16" NYLON	2
1/4-20 X 7/16 SHOULDER BOLT - 5/16" DIA X 1/4" L SHOULDER	1
SCREW - 1/4-20 X 3/4" SHCS	1
WASHER - 1/4"S FLAT - .260" ID - 9/16" OD - .030"-.050" THK	1
WASHER, 5/16" BELLEVILLE SS	1
HDM LARGE PLASTIC WASHER	1
SCREW, PAN HEAD, 1/4-20 x 5/8	2
HANDLE REPLACEMENT KIT	
SPACER - LONG AND SHORT	2
CARRIAGE BOLT - LONG AND SHORT	2
NUT 1/4-20 NYLOCK, BLK, ZP, GRD 5	1
BOLT, 1/4-20 x 3/4 CARRIAGE ZP	1

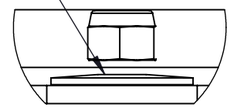
INSTALLATION - OPTION 3 (360 DEG. ROTATION)

NOT RECOMMENDED FOR ANY DEVICE HEAVIER THAN A KEYBOARD

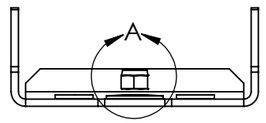


(5/16" BELLEVILE SS WASHER)
MAKE SURE THE CONICAL SHAPE OF WASHER IS FACING THE NYLOCK OR SCREW'S HEAD IN ORDER FOR THE MOUNT TO PERFORM PROPERLY

DETAIL A
SCALE 1 : 1



HOW TO REPLACE HANDLE



END VIEW DETAIL OF 5/16" BELLEVILLE SS WASHER

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STANDARD SPEC'S REQUIRED: 98-000004	**DO NOT SCALE DRAWING**	TITLE: MD-200 SERIES MOTION DEVICE
DESIGNED BY: Paul Melaya	MATERIAL: SEE BOM	SIZE B / DWG. NO. C-MD-201-203-INST / REV 3/23/10
DRAWN BY: Paul Melaya		
CHECKED BY: -	FINISH: N/A	
REF # N/A	AREA(SQ. IN.): 711.34	WEIGHT (LB): 8.18 / SCALE: 1:5 / SHEET 2 OF 2